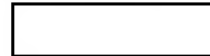
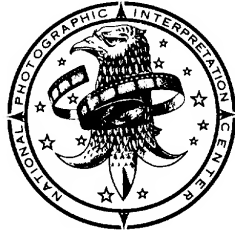


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Basic Imagery Interpretation Report

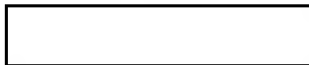


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PERESLAVL-ZALESSKIY SAM COMPLEX A29-5



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**DEPLOYED AAA/SAM FACILITIES, USSR
OCTOBER 1968**

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INSTALLATION OR ACTIVITY NAME

COUNTRY

Pereslavl-Zalesskiy SAM Complex A29-5

UR

UTM COORDINATES

GEOGRAPHIC COORDINATES

NA

56-45N 038-38E

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MAP REFERENCE

ACIC. USATC 200, Sheet 0154-23HL, 2d ed, Apr 63, Scale 1:200,000 (SECRET)

LATEST IMAGERY USED

NEGATION DATE (if required)

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ABSTRACT

Pereslavl-Zalesskiy SAM Complex A29-5 consists of a launch area with three sites, a tracking/guidance facility, a missile-handling facility, and a support facility. This report describes each of these areas, as well as a nearby associated air warning radar facility. Information is current through [REDACTED]

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The complex is one of five identified SA-5 complexes located within approximately 100 nautical miles of Moscow. It is in a late stage of construction and is expected to be operational within the next few months.

INTRODUCTION

Pereslavl-Zalesskiy SAM Complex A29-5 is one of 59 SA-5 SAM installations (total current as of [REDACTED]). These are strategically deployed throughout the USSR, with the greatest concentration in the industrial western regions of the country from the Baltic Sea to the Ural Mountains. This complex is one of five identified SA-5 complexes which form a defensive ring around and within approximately 100 nautical miles (nm) of Moscow.

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Complex A29-5 is located in a heavily wooded area at 56-45N 038-38E, approximately 7.5 nm west-northwest of the village of Pereslavl-Zalesskiy and approximately 70 nm northeast of Moscow (Figure 1). The ground elevation at the complex is about 500 feet above mean sea level and the complex orientation is [REDACTED] so that the preferred direction of fire is north-northwest.

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BASIC DESCRIPTION

The identification of this complex marked the appearance of a new configuration of launch site service roads in that the roads form a continuous, circumferential pattern rather than a horseshoe pattern with a loop at either end as exemplified by Kimry SAM Complex A19-5. 1/ The complex consists of the following four functional areas (Figure 2): a launch area which contains three independent launch sites, a tracking/guidance facility containing three engagement radars, a missile-handling facility, and a support facility. The complex is secured by two perimeter fences. Associated with it is an air warning radar facility, located approximately 3.7 nm southeast of the complex.

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The complex was first observed on [REDACTED] photography of [REDACTED]. The most recent photography on which there is no evidence of it is that of [REDACTED] and possibly [REDACTED]. The complex has been under construction since early [REDACTED] (Table 1) and as of [REDACTED] was nearing completion. In all probability it will be operational within six months from that date.

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Launch Area

Launch Site A, in a late stage of construction, consists of six launch positions, designated A1 through A6, and a launch control center. Launchers, missile dollies and dolly tracks, and environmental shelters are installed and complete at all six positions; however, conventional revetments have been constructed for only Positions A4, A5, and A6. The unusual construction of Positions A1, A2, and A3 has eliminated the need for revetments as such, since the three positions and the road serving them have been excavated and are approximately 15 feet below surface level, a sufficient depth to offer adequate blast protection. Position A4 has one arch-shaped revetment, Position A5 has two linear revet-

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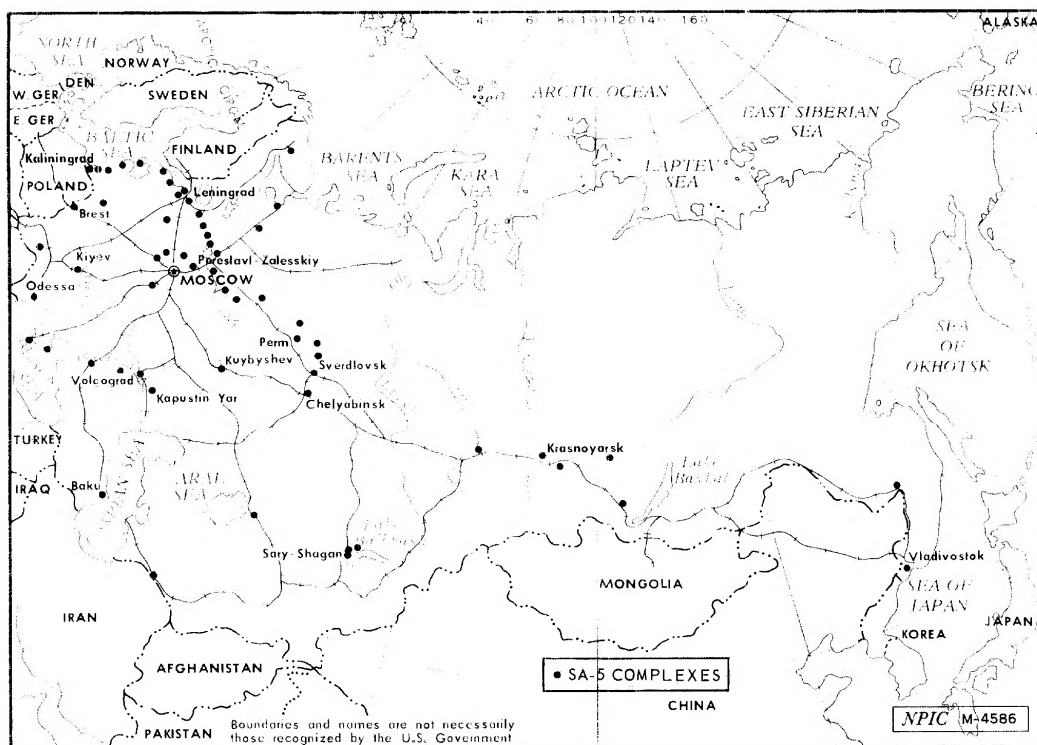


FIGURE 1. LOCATION OF PERESLAVL-ZALESSKIY SAM COMPLEX A29-5.

ments, and Position A6 has one linear revetment and one large revetment that surrounds the entire southern and western sides of the position. The launch control center for Site A consists of a covered launch control revetment, one gable-roofed building [REDACTED] and [REDACTED] and two smaller structures. The more northerly of the two structures is directly on top of a probable buried tank and is therefore possibly a pumphouse or a valvehouse. Cables/cable scars extend from the launch control revetment to all six launch positions and to the tracking/guidance facility.

Launch Site B has the same configuration as Site A. However, Site B is in only a mid-stage of construction; it is the least developed of the three sites. All six launch positions, designated B1 through B6, have complete or nearly complete revetments and trackbed grading. Missile dolly tracks may be at least partially installed at Positions B4, B5, and B6. Framework for an environmental shelter is observed at B1. The six launchers for Site B are parked in the missile-handling facility. Positions B1 and B6 each have two linear revetments, Positions B2 and B5 each have one linear and one arch-shaped revetment, and Positions B3 and B4 each have one arch-shaped revetment. The launch control center for Site B contains an unroofed central control revetment, one small structure, and an excavation possibly for a buried tank. Cables/cable scars extend from the launch control revetment to all six launch positions and to the tracking/guidance facility.

Launch Site C, in a late stage of construction, also contains six launch positions (designated C1 through C6) and has the same configuration as the other launch sites. All of the positions have revetments, launchers, missile dollies, dolly tracks, and environmental shelters. Positions C1, C2, and C6 each have two linear revetments, Positions C3 and C4 each have one arch-shaped revetment, and Position C5 has one arch-shaped and two linear revetments. The roof of the launch control revetment in the launch control center has been removed on [REDACTED] coverage, revealing two electronics vans. In addition, two vans are parked in the road between Positions C3 and C4. One gable-roofed building [REDACTED] and two smaller structures are also observed in the control center. Cables/cable scars extend from the launch control revetment to all six launch positions and to the tracking/guidance facility.

A large ground scar extends from Position C4 to Position A3 and is intersected mid-way by a ground scar perpendicular to it. This second scar extends from Site B to a point approximately one-third of the distance from the site to the tracking/guidance facility.

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Table 1. Construction Chronology

Activity	Date
No activity	
Possibly no activity	
Activity first observed	
Launch site u/c	
Tracking/guidance facility u/c	
Missile-handling facility u/c	
Support facility u/c	
AW radar facility u/c	
Launch positions occupied by missile-related equipment	
Tracking/guidance facility positions occupied	
AW radar facility occupied	

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*Date of most recent definitely showing no activity.

**Date of earliest coverage of indicated activity.

Tracking/Guidance Facility

The tracking/guidance facility is located nearly 3,000 feet south-southeast of the launch area and consists of a control center and three mounded radar positions, designated "a," "b," and "c" to correspond to the designations of their respective launch sites.

The control center, which at one time consisted of three revetted bays, has been modified. The revetting has been removed, and a building is under construction in its place. It appears that the building will be earth mounded when complete. Four vans and one structure are nearby.

Position "a" is occupied by an engagement radar around which has been built a protective circular wall. One small van is also on the mound. A building and a revetted area are adjacent to the western side of the mound. The revetment has concrete interior walls and may eventually be roofed.

At Position "b" the engagement radar is in the process of being assembled and consists of only the base or platform van with no attached cab or antenna, a stage of assembly rarely observed. Four radar transport vans and three electronics vans are on and around the radar mound. A small shelter is between Positions "b" and "c."

Radar Position "c" is occupied by an engagement radar, and a building and a revetted area are adjacent to the eastern side of the mound. The revetted area is covered by mesh netting; however, one electronics van and a probable generator/converter can be distinguished beneath the netting.

Trees have been cleared in a line from radar Positions "a" and "c" to a calibration pole which has been erected southwest of Launch Site A.

An unidentified facility consisting of a building and a small cleared circular area is located on the east side of the road midway between the tracking/guidance facility and Launch Site B. A short distance to the north is a small structure not necessarily related to the unidentified facility.

Missile-Handling Facility

The missile-handling facility, located north of Launch Site B, is in a late stage of construction and is possibly operational. It exhibits the conventional parallel road pattern. For simplicity, each road and its facilities will be discussed separately.

At the southern end of the western parallel road, the six launchers for Launch Site B and 13 missile shipping containers without the attached fin crates are parked. Midway along the road is one of two drive-through missile checkout/assembly buildings, around which are at least 10 unidentified vans/vehicles/pieces of equipment. A concrete portion of the road connects this drive-through building with the other drive-through checkout/assembly building, located at the northern end of the same parallel road. Midway between the two drive-through buildings are two vans/pieces of equipment, one of which is on top of a small mound. A revetted booster storage area, consisting of one large and two smaller sections, is situated along a loop road at the northern end of the parallel road. A small truck-mounted crane and two small triangular framework structures are at the far northern end of the concrete road section. It is not yet possible to discern whether these framework structures will be removed or will remain as a permanent feature of the facility.

At the southern end of the eastern parallel road is one of two propellant loading facilities. This facility consists of three large interconnected tanks connected to two

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separate loading points at the side of the road. These loading points have the appearance of small vans; however, their detailed features are not discernible. In the immediate vicinity of the loading facility are various unidentified pieces of equipment and one small flat-roofed building. At the northern end of the eastern parallel road is the other propellant loading facility, which consists of three small interconnected tanks, also connected to two separate loading points at the side of the road. A missile on a transporter is parked alongside one of the loading points at this facility. This is the only missile observed at the complex. Since the complex does not appear operational, it is possible that the missile is being used in checkout and/or training operations. Its presence implies that the complex may assume operational status in the near future. At the northern end of the eastern parallel road is a missile checkpoint area containing four vans/pieces of equipment. A separate road from the northern end of the road leads to a large cleared area containing a revetted missile/missile component storage building

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Support Facility and Other Support Elements

The support facility is directly north of Launch Site A and consists of 11 large buildings, four of which are in a fenced area, and at least six smaller buildings/structures. Among these can be identified four barracks-type buildings, one administration building, one probable messhall, one steam/heat plant, and one gatehouse.

A bivouac, south of Site A, consists of 24 pyramidal tents and three other structures. A large vehicle/equipment maintenance facility is between the missile-handling and support facilities. It contains four buildings, at least seven trucks, two flat-bed trailers, and various vans/pieces of equipment. A small fenced area containing two buildings and several piles of lumber is on the south side of the launch area main road between Sites A and B. In addition a sawmill containing three buildings/structures is on the west side of the road southeast of Site B. A recreational area consisting of a soccer field, a basketball court, a personnel obstacle course, and a small unidentified tower is west of Site A.

Air Warning Radar Facility

An occupied air warning radar facility is located at 56-42N 038-41E, approximately 3.7 nm southeast of the launch complex. Two BACK NET and two SIDE NET radars occupy the four radar mounds. Twelve vans are in the control revetment, which is centrally located among the four mounds. Two buildings, one gable-roofed and one arch-roofed plus the foundation for a third are within the facility. In addition, the facility contains what appears to be approximately nine pyramidal tents.

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REFERENCES

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IMAGERY



MAPS OR CHARTS

ACIC. US Air Target Chart 200, Sheet 0154-23III, 2d ed, Apr 63, Scale 1:200,000 (SECRET)

DOCUMENTS

1. NPIC. Probable Long Range SAM Launch Complex, Pereslavl-Zalesskiy, USSR, Jul 67 (TOP SECRET)

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